



BLUE ROCK
ENVIRONMENTAL, INC.

FILE COPY

Mr. Mark Verhey
Humboldt County Health Department
Division of Environmental Health
100 H Street, Suite 100
Eureka, California 95501

September 7, 2005

Re: Third Quarter 2005 Groundwater Monitoring & Site Status Report
Former Totem Pole Market
580 South Fortuna Boulevard, Fortuna, CA
HCDEH LOP No. 12028
Blue Rock Project No. NC-40

Dear Mr. Verhey,

This report presents the results of the third quarter 2005 groundwater monitoring activities at 580 South Fortuna Boulevard, Fortuna, Humboldt County, California (site) (Figure 1), and was prepared for Valerie Ellis by Blue Rock Environmental, Inc. (Blue Rock).

Background

Site Description

The former Totem Pole Market is located on the corner of South Fortuna Boulevard and First Street in Fortuna, California. The site is located in an area of low topographic relief and is considered part of the Eel River flood plain (Figure 1). The site contains one single-story building. The site formerly contained two 1,000-gallon gasoline and one 550-gallon used oil underground storage tanks (USTs) (Figure 2).

Site History

In 1977, Beacom Construction (Beacom) of Fortuna, California, on behalf of Mr. Marvin Fork, closed the two 1,000 gallon USTs in place by filling with a cement slurry under regulations of the time. In 1988, an Unauthorized Release Form was filed by Mr. Fork with Humboldt County. In 1990, LACO Associates (LACO) was retained to evaluate the site for possible overexcavation. LACO subsequently supervised the excavation of three test pits to determine the feasibility of overexcavation. In March 1994, the two 1,000-gallon gasoline USTs were removed by Haberstock Construction. At this time a third 550-gallon used oil UST was discovered and removed. The three USTs were transported to Erickson Inc of Richmond, CA. Following UST removal, approximately 180 cubic yards of petroleum hydrocarbon impacted soil was overexcavated and disposed of at B&J landfill in Vacaville, California.

Site Investigation History

Subsurface investigation activities have been ongoing at the site since 1995. A total of approximately 27 soil borings have been drilled and six monitoring wells (MW-1 through MW-3, MW-4S, MW-4D and MW-5D) have been installed at the site (Figure 2). Groundwater monitoring has been ongoing since the wells were installed. Based on site assessment performed to date, including soil and groundwater sampling from temporary soil borings and monitoring wells, the lateral and vertical extent of petroleum hydrocarbon impact to soil and groundwater associated with the subject release has been delineated. Soil and groundwater sample data are summarized on Tables 1 and 2, respectively.

Summary of Contaminant Type

The predominant contaminant types that have been detected in the subsurface include total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, and xylenes (BTEX), and the fuel oxygenates MTBE, TBA, ETBE, and TAME.

Summary of Hydrogeology

Based on boring logs generated by LACO, The first couple feet below grade consists of baserock fill. The site is underlain by sediments characterized primarily as clayey silt or silty clay (CL-ML) from ~2 feet bgs to depth of ~20 feet bgs. Intermittent layers of poorly graded sands have been encountered below 13 feet bgs. Saturated conditions have been encountered from approximately 4 to 8 feet bgs and again from approximately 13 feet bgs to 20 feet bgs. Data collected by LACO supports their interpretation of a two water-bearing zone model. Based on the data presented by LACO it appears MW-1 through MW-3 are screened across two water bearing zones.

Groundwater Monitoring – Third Quarter 2005

Groundwater Monitoring Field and Laboratory Activities

On August 9, 2005, six wells (MW-1, MW-2, MW-3 MW-4S, MW-4D and MW-5D) were monitored. During this event a groundwater sample was inadvertently not collected from MW-1, so subsequently on August 18, 2005, the six wells were once again monitored and a groundwater sample was collected from MW-1.

Prior to sampling, an electronic water level indicator was used to gauge depth to water in each well, accurate to within ± 0.01 -foot. All wells were checked for the presence of light non-aqueous phase liquid (LNAPL) petroleum prior to purging. No measurable thicknesses of LNAPL were observed on groundwater in any of the wells.

In preparation for sampling, the wells were purged of groundwater until sampling parameters (temperature, pH, and conductivity) stabilized.

Following recovery of water levels to approximately 80% of their static levels, groundwater samples were collected from the wells using disposable polyethylene bailers and transferred to laboratory supplied containers. Sample containers were labeled, documented on a chain-of-custody form, and placed on ice in a cooler for transport to the project laboratory.

Purging instruments were cleaned between use by an Alconox[®] wash followed by double rinse in clean tap water to prevent cross-contamination. Purge and rinsate water was stored on-site in labeled 55-gallon drums pending future removal and disposal.

Groundwater monitoring and well purging information is presented on Gauge Data/Purge Calculations and Purge Data sheets (attached).

Groundwater samples were analyzed by Kiff Analytical, a DHS-certified laboratory, located in Davis, California, for the following analytes:

- TPHg, BTEX, MTBE, DIPE, ETBE, TAME, TBA by EPA Method 5030/8260B.
- TPHd by EPA Method 8015 (with silica-gel clean-up on MW-1 only).

Groundwater Flow Direction and Gradient

Static groundwater in the wells on August 9 was present beneath the site at depths ranging from approximately 4.55 (MW-4S) to 14.03 (MW-2) feet bgs. Static groundwater in the wells on August 18 was present beneath the site at depths ranging from approximately 6.70 (MW-4S) to 14.03 (MW-2) feet bgs. The groundwater elevation in MW-4s, the only well screened in the shallow zone, was approximately 7 to 10 feet higher than groundwater elevations for all other wells at the site. Therefore, the remaining wells, which had more comparable groundwater elevations, were used to estimate groundwater flow conditions in the deeper zone.

Gauging data, combined with well elevation data, were used to calculate groundwater elevation, and to generate groundwater elevation and gradient maps for the two events. The groundwater flow directions calculated ranged from northwest to east-northeast at gradients ranging from 0.025 ft/ft to 0.06 ft/ft. As MW-1, 2, and 3 appear to be screened across two water bearing zones, groundwater elevations in these wells may be affected by both zones thus decreasing the reliability of the monitoring data collected from these wells.

Groundwater Contaminant Analytical Results

LNAPL:	None
TPHg concentration:	<50 µg/L (MW-3, MW-4S, MW-4D MW-5D) to 1,800 µg/L (MW-1)
TPHd concentration	<50 µg/L (MW-3, MW-4D MW-5D) to < 1,000 µg/L (MW-1)
Benzene concentration:	<0.50 µg/L (MW-3, MW-4S, MW-4D MW-5D) to 1.9 µg/L (MW-1)
MTBE Concentration:	<0.50 µg/L (MW-1, MW-3, MW-4S, MW-4D MW-5D)

Groundwater sample analytical results are shown graphically on Figure 4. Cumulative groundwater sample analytical results are summarized in Table 2 and well construction details are summarized in Table 3. Copies of the laboratory report and chain-of-custody form are attached.

Project Status and Recommendations

- LACO Associates submitted a report entitled *Subsurface Investigation Status Report and Groundwater Monitoring Report* dated June 29, 2005 to the HCDEH. This report contained recommendations for additional monitoring well installations, proposed scenarios for remedial action at the site, and recommended sampling the domestic well located at 478 S. Fortuna Blvd. LACO's recommendations for additional wells included the reconstruction of MW-1, 2, and 3 into nested well pairs screened in the shallow and deep water bearing zones and the installation of one additional nested pair in the vicinity of B-5.
- Blue Rock generally concurs with these recommendations. Blue Rock recommends preparation of a workplan for replacement of MW-1, MW-2, and MW-3 with nested pairs and installation of additional wells, if deemed necessary. The workplan will include a synthesis of investigation data to date and provide proposals for the installation of additional wells needed to better understand and monitor the hydrogeologic characteristics of the two water bearing zones and plume geometries. Blue Rock recommends the evaluation of at least three remedial alternatives, based on technical merit and cost efficacy, following the proposed well installation.
- Blue Rock concurs that the domestic well located at 478 S. Fortuna Blvd. should be accessed and sampled for target analytes. Access will first need to be obtained from the owner.
- The site is currently being monitored on a quarterly basis per the HCDEH directives. The next quarterly sampling event is scheduled for November 2005.

Certification

This report was prepared under the supervision of a California Professional Geologist at Blue Rock. All statements, conclusions, and recommendations are based upon published results from past consultants, field observations by Blue Rock, and analyses performed by a state-certified laboratory as they relate to the time, location, and depth of points sampled by Blue Rock. Interpretation of data, including spatial distribution and temporal trends, are based on commonly used geologic and scientific principles. It is possible that interpretations, conclusions, and recommendations presented in this report may change, as additional data become available and/or regulations change.

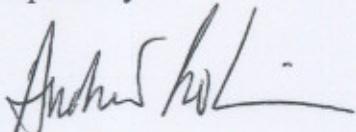
Information and interpretation presented herein are for the sole use of the client and regulating agency. The information and interpretation contained in this document should not be relied upon by a third party.

The service performed by Blue Rock has been conducted in a manner consistent with the level of care and skill ordinarily exercised by members of our profession currently practicing under similar conditions in the area of the site. No other warranty, expressed or implied, is made.

If you have any questions regarding this project, please contact us at (707) 441-1934.

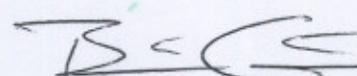
Sincerely,
Blue Rock Environmental, Inc.

Prepared by:

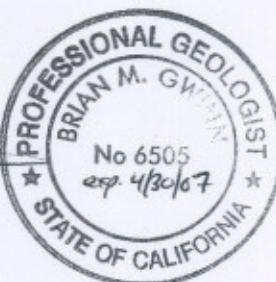


Andrew LoCicero
Project Scientist

Reviewed by:



Brian Gwinn, PG
Principal Geologist



Attachments:

- Table 1: Soil Analytical Data
- Table 2: Groundwater Elevations and Analytical Data
- Table 3: Well Construction Details
- Table 4: Groundwater Monitoring Schedule
- Figure 1: Site location Map
- Figure 2: Site Plan
- Figure 3a: Groundwater Elevations and Gradient – 8/9/05
- Figure 3b: Groundwater Elevations and Gradient – 8/18/05
- Figure 4: Dissolved-Phase TPHg Distribution
- Blue Rock Gauge/Purge Calculations and Well Purging Data field sheets
- Laboratory Analytical Reports and Chain-of-Custody Forms

Distribution:

- Val Ellis, PO Box 378, Miranda, CA 95553

Table 1
SOIL ANALYTICAL DATA
Former Totem Pole Market
580 South Fortuna Boulevard
Fortuna, California
Blue Rock Project No. NC-40

Sample ID	Sample Depth (feet bgs)	Sample Date	TPHg (mg/kg)	TPHd (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	MTBE (mg/kg)	Pb (mg/kg)	Other Analytes (mg/kg)
<i>1990 Test Pits</i>											
3472-1	--	11/6/90	<1	--	<0.005	<0.005	<0.005	<0.01	--	--	--
3472-2	--	11/6/90	--	--	--	--	--	--	--	6.8	--
3472-3	--	11/6/90	<1	--	<0.005	<0.005	<0.005	<0.01	--	--	--
3472-4	--	11/6/90	--	--	<0.005	<0.005	<0.005	<0.01	--	5.7	--
<i>1994 Overexcavation</i>											
1	4' - 5'	3/1/94	1.1	--	<0.005	<0.005	<0.005	<0.01	--	--	--
2	4' - 5'	3/1/94	<1.0	<1.0	<0.005	<0.005	<0.005	<0.01	--	--	--
3	4' - 5'	3/1/94	<1.0	--	<0.005	<0.005	<0.005	<0.01	--	--	--
4	4' - 5'	3/1/94	--	--	--	--	--	--	--	7	--
5	5'	3/4/94	3.2	--	<0.005	<0.005	<0.02	<0.02	--	--	--
6	5'	3/4/94	8.1	--	<0.005	<0.005	<0.06	<0.06	--	--	--
7	5'	3/4/94	<1.0	--	<0.005	<0.005	<0.005	<0.01	--	--	--
8	5'	3/4/94	400	--	<0.05	<0.3	<10	<10	--	--	--
9	5'	3/4/94	<1.0	--	<0.005	<0.005	<0.005	<0.01	--	--	--
10	5'	3/4/94	<1.0	--	<0.005	<0.005	<0.005	<0.01	--	--	--
11	5'	3/4/94	<1.0	--	<0.005	<0.005	<0.005	<0.01	--	--	--
12	5'	3/4/94	<1.0	--	<0.005	<0.005	<0.005	<0.01	--	--	--
13	--	3/5/94	<1.0	--	<0.005	<0.005	<0.005	<0.01	--	--	--
14	--	3/5/94	<1.0	--	<0.005	<0.005	<0.005	<0.01	--	--	--
15	5'	3/5/94	670	--	<0.1	<0.5	<10	<10	--	--	--
16	4'-5'	3/11/94	3.9	--	<0.005	<0.005	<0.1	<0.1	--	--	--
17	4'-5'	3/11/94	750	--	<0.25	<0.25	<0.1	<0.1	--	--	--
18	4'-5'	3/11/94	<1.0	--	<0.005	<0.005	<0.005	<0.01	--	--	--
19	4'-5'	3/11/94	<1.0	--	<0.005	<0.005	<0.005	<0.01	--	--	--
20	--	3/14/94	<1.0	--	<0.005	<0.005	<0.005	<0.01	--	--	--
21	--	3/14/94	1.5	--	<0.005	<0.005	<0.005	<0.01	--	--	--
22	--	3/16/94	670	35	<1	<5	<5	<5	--	7.7	--
23	4'-5'	3/21/94	<1.0	--	<0.005	<0.005	<0.005	<0.01	--	--	--
24	4'-5'	3/21/94	<1.0	--	<0.005	<0.005	<0.005	<0.01	--	--	--
25	4'-5'	3/21/94	<1.0	--	<0.005	<0.005	<0.005	<0.01	--	--	--
26	4'-5'	3/22/94	4,600	--	<1.3	<10	<50	<50	--	--	--
27	4'-5'	3/22/94	590	--	<0.25	<2	<10	<10	--	--	--
28	4'-5'	3/22/94	980	--	0.52	<5	<20	<20	--	--	--
1A,1B,1C,1D	SP	4/1/94	450	--	<0.1	<1	<10	<10	--	11	--
2A,2B,2C,2D	SP	4/1/94	1.4	--	<0.005	<0.005	<0.005	<0.01	--	17	--
<i>1996 Investigation</i>											
B-1	3'	2/27/96	<1.0	--	<0.005	<0.005	<0.005	<0.01	<0.05	--	--
B-2	2.5'	2/27/96	<1.0	--	<0.005	<0.005	<0.005	<0.01	<0.05	--	--
B-2	8'	2/27/96	<1.0	--	<0.005	<0.005	<0.005	<0.01	<0.05	--	--
B-3	2'	2/27/96	480	--	0.15	<0.03	<5	<5	<0.5	--	--
B-3	7' - 9'	2/27/96	370	--	<1	<0.2	<0.4	<0.4	<1	--	--
B-3	12' 14'	2/27/96	50	--	0.049	<0.05	<1	<1	<0.05	--	--
B-5	2.5'	2/27/96	57	--	0.042	<0.05	<0.5	<0.5	<0.05	--	--
B-5	7'	2/27/96	5.1	--	0.037	0.012	0.056	0.243	<0.05	--	--
B-6	2.5'	3/1/96	<1.0	--	<0.005	<0.005	<0.005	<0.01	<0.05	--	--
B-6	7'	3/1/96	<1.0	--	<0.005	<0.005	0.014	0.029	<0.05	--	--
MW-1	4.5'-6.5'	6/25/96	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
MW-1	10'-11.5'	6/25/96	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
MW-1	15'-16.5'	6/25/96	30	--	<0.025	<0.025	<0.5	<0.5	<0.05	5.5	--
MW-2	5'-6.5'	6/25/96	<1.0	--	<0.005	<0.005	<0.005	<0.005	<0.05	5.2	--
MW-2	10'-11.5'	6/25/96	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
MW-2	15'-16.5'	6/25/96	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
PZ-3	5'-6.5'	6/25/96	<1.0	--	<0.005	<0.005	<0.005	<0.005	<0.05	5.7	--
PZ-3	10'-11.5'	6/25/96	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
PZ-3	15'-16.5'	6/25/96	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	--	--

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<i>1997 Investigation</i>											
B-1/1-15	5'	1/15/97	<1.0	--	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
B-1/1-15	10'	1/15/97	<1.0	--	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
B-2/1-15	3'	1/15/97	<1.0	--	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
B-2/1-15	5'	1/15/97	1.1	--	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
B-2/1-15	10'	1/15/97	4.9	--	<0.005	<0.5	<0.5	<0.5	<0.05	--	--
B-3/1-15	5'	1/15/97	<1.0	--	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
B-3/1-15	10'	1/15/97	<1.0	--	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
B-4/1-15	5'	1/15/97	1,700	--	<.5	<2.5	<20	<20	<5	--	--
B-4/1-15	10'	1/15/97	<1.0	--	0.0052	<0.005	0.02	0.027	<0.05	--	--
B-5/1-15	3'	1/15/97	<1.0	--	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
B-5/1-15	5'	1/15/97	<1.0	--	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
B-5/1-15	10'	1/15/97	<1.0	--	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
B-6/1-16	2.5'	1/16/97	<1.0	--	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
B-6/1-16	5'	1/16/97	910	--	<0.5	<0.5	<10	<10	<5	--	--
B-7/1-16	1.5'	1/16/97	<1.0	--	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
B-7/1-16	5'	1/16/97	<1.0	--	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
B-8/1-16	3'	1/16/97	<1.0	--	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
B-8/1-16	5'	1/16/97	83	--	0.62	3.3	0.77	2.9	<0.25	--	--
B-9/1-16	5'	1/16/97	130	--	<0.13	<0.13	<.5	<.5	<0.13	--	--
B-9/1-16	10'	1/16/97	<1.0	--	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
B-9/1-16	15'	1/16/97	<1.0	--	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
<i>1999 Investigation</i>											
3472 B1 - 0299	5'	2/17/99	39	--	<0.005	<0.005	<0.5	<0.5	<0.05	--	--
3472 B2 - 0299	5'	2/17/99	<1.0	--	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
3472 B2 - 0299	9'	2/17/99	<1.0	--	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
3472 B2 - 0299	14'	2/17/99	<1.0	--	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
3472 B2 - 0299	19'	2/17/99	<1.0	--	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
3472 B3 - 0299	5'	2/17/99	<1.0	--	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
3472 B3 - 0299	9'	2/17/99	<1.0	--	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
3472 B3 - 0299	14'	2/17/99	<1.0	--	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
3472 B3 - 0299	19'	2/17/99	<1.0	--	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
3472 B4 - 0299	5'	2/17/99	<1.0	--	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
3472 B4 - 0299	9'	2/17/99	<1.0	--	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
3472 B4 - 0299	14'	2/17/99	<1.0	--	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
3472 B4 - 0299	19'	2/17/99	<1.0	--	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
3472 B5 - 0299	5'	2/18/99	<1.0	--	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
3472 B5 - 0299	9'	2/18/99	<1.0	--	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
3472 B5 - 0299	14'	2/18/99	<1.0	--	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
3472 B5 - 0299	19'	2/18/99	<1.0	--	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
<i>2001 Investigation</i>											
HB1-01	4.5'	1/5/01	<1.0	--	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
HB2-01	4.5'	1/5/01	<1.0	--	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
HB3-01	4.5'	1/5/01	1.7	--	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
HB4-01	4.5'	1/5/01	1	--	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
HB5-01	4.5'	1/5/01	1,100	--	<0.25	<0.25	<2	<2.5	<2.5	--	--
HA-EJFI	5'	6/21/01	1.2	--	<0.005	<0.005	<0.005	<0.005	<0.05	--	--

Table 1
SOIL ANALYTICAL DATA
Former Totem Pole Market
580 South Fortuna Boulevard
Fortuna, California
Blue Rock Project No. NC-40

Sample ID	Sample Depth (feet bgs)	Sample Date	TPHg (mg/kg)	TPHd (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	MTBE (mg/kg)	Pb (mg/kg)	Other Analytes (mg/kg)
<i>2005 Investigation</i>											
B-10	8	2/2/05	<1.0	3.1	<0.005	<0.005	<0.005	<0.01	<0.025	--	<0.01 <0.5
B-10	12	2/2/05	<1.0	1.6	<0.005	<0.005	<0.005	<0.01	<0.025	--	<0.01 <0.5
B-10	16	2/2/05	<1.0	<1.0	<0.005	<0.005	<0.005	<0.01	<0.025	--	<0.01 <0.5
B-10	20	2/2/05	<1.0	3.1	<0.005	<0.005	<0.005	<0.01	<0.025	--	<0.01 <0.5
B-11	4	2/2/05	53	14	<0.005	<0.005	<0.005	<0.01	<0.025	--	<0.01 <0.5
B-11	8	2/2/05	<1.0	4	<0.005	<0.005	<0.005	<0.01	<0.025	--	<0.01 <0.5
B-11	12	2/2/05	<1.0	1.7	<0.005	<0.005	<0.005	<0.01	<0.025	--	<0.01 <0.5
B-11	16	2/2/05	<1.0	<1.0	<0.005	<0.005	<0.005	<0.01	<0.025	--	<0.01 <0.5
B-11	20	2/2/05	<1.0	<1.0	<0.005	<0.005	<0.005	<0.01	<0.025	--	<0.01 <0.5
B-12	4	2/2/05	<1.0	<1.0	<0.005	<0.005	<0.005	<0.01	<0.025	--	<0.01 <0.5
B-12	8	2/2/05	<1.0	2.3	<0.005	<0.005	<0.005	<0.01	<0.025	--	<0.01 <0.5
B-12	12	2/2/05	<1.0	<1.0	<0.005	<0.005	<0.005	<0.01	<0.025	--	<0.01 <0.5
B-12	16	2/2/05	<1.0	<1.0	<0.005	<0.005	<0.005	<0.01	<0.025	--	<0.01 <0.5
B-12	20	2/2/05	<1.0	<1.0	<0.005	<0.005	<0.005	<0.01	<0.025	--	<0.01 <0.5

Notes

bgs: below ground surface

--: Not analyzed, available or applicable

mg/kg = milligrams per kilogram

<###: Not detected above the method detection limit as shown

TPHg: Total petroleum hydrocarbons as gasoline by EPA Method 5030/8015M or 5030/8260B

TPHd: Total petroleum hydrocarbons as diesel by EPA Method 8015

BTEX by EPA Method 8020 or 8260B

MTBE: Methyl tertiary butyl ether by EPA 8020 or 8260B

Lead by EPA Method 6010

Other Analytes:

TBA: Tertiary butanol by EPA 8260B

DIPE: Di isopropyl ether by EPA 8260B

ETBE: Ethyl tertiary butyl ether by EPA 8260B

TAME: Tertiary amyl methyl ether by EPA 8260B

Table 2
GROUNDWATER ELEVATIONS AND ANALYTICAL DATA
Former Totem Pole Market
580 South Fortuna Boulevard
Fortuna, California
Blue Rock Project No. NC-40

Sample ID	Sample Date	TOC (feet)	DTW (feet)	SPH (feet)	GWE (feet)	TPHg ($\mu\text{g/L}$)	TPHd ($\mu\text{g/L}$)	Benzene ($\mu\text{g/L}$)	Toluene ($\mu\text{g/L}$)	Ethylbenzene ($\mu\text{g/L}$)	Xylenes ($\mu\text{g/L}$)	MTBE ($\mu\text{g/L}$)	TBA ($\mu\text{g/L}$)	DIPE ($\mu\text{g/L}$)	ETBE ($\mu\text{g/L}$)	TAME ($\mu\text{g/L}$)	Pb ($\mu\text{g/L}$)
MW-1	8/12/96	98.70	13.92	0.00	84.78	1,700	<500	72	<3	24	72	<10	—	—	—	—	—
	9/9/96	98.70	14.40	0.00	84.30	—	—	—	—	—	—	—	—	—	—	—	—
Screen	10/8/96	98.70	14.40	0.00	84.30	—	—	—	—	—	—	—	—	—	—	—	—
5' - 20'	11/25/96	98.70	6.00	0.00	92.70	1,700	110	31	<5	38	59	<5	—	—	—	—	<2
	1/9/97	98.70	4.78	0.00	93.92	—	—	—	—	—	—	—	—	—	—	—	—
	2/4/97	98.70	4.92	0.00	93.78	930	330	1.8	<10	14	20	<5	—	—	—	—	—
	3/19/97	98.70	10.05	0.00	88.65	—	—	—	—	—	—	—	—	—	—	—	—
	4/7/97	98.70	11.66	0.00	87.04	—	—	—	—	—	—	—	—	—	—	—	—
	5/1/97	98.70	12.11	0.00	86.59	790	480	1.3	2.7	5.9	16.7	<5	—	—	—	—	—
	6/3/97	98.70	12.64	0.00	86.06	—	—	—	—	—	—	—	—	—	—	—	—
	7/7/97	98.70	13.57	0.00	85.13	—	—	—	—	—	—	—	—	—	—	—	—
	8/13/97	98.70	13.98	0.00	84.72	—	—	—	—	—	—	—	—	—	—	—	—
	1/16/98	98.70	9.32	0.00	89.38	—	—	—	—	—	—	—	—	—	—	—	—
	5/5/98	98.70	9.79	0.00	88.91	1,000	190	2.8	<2	15	<10	<5	—	—	—	—	—
	2/22/99	98.70	7.61	0.00	91.09	—	—	—	—	—	—	—	—	—	—	—	—
	3/5/99	98.70	--	0.00	--	830	120	<5	<5	12	<5	<5	—	—	—	—	—
	5/3/01	98.70	12.22	0.00	86.48	4,700	300	14	<30	28	38	<30	—	—	—	—	—
	9/4/01	98.70	13.95	0.00	84.75	—	—	—	—	—	—	—	—	—	—	—	—
	11/9/01	98.70	13.90	0.00	84.80	—	—	—	—	—	—	—	—	—	—	—	—
	2/25/03	98.70	9.54	0.00	89.16	1,900	140	0.85	<0.5	5.5	0.74	<1	ND	3.90	ND	ND	—
	5/16/03	98.70	7.82	0.00	90.88	1,500	220	<0.5	<0.5	3.8	<.5	<1	ND	4.30	ND	ND	—
	8/6/03	98.70	13.59	0.00	85.11	2,000	280	1.4	<0.5	4.4	1	<1	ND	3.0	ND	ND	—
	11/11/03	98.70	13.97	0.00	84.73	2,000	—	4.3	<0.5	3.4	1.8	<1	ND	ND	ND	ND	—
	2/17/04	98.70	5.96	0.00	92.74	2,600	290	<.5	<0.5	5.0	0.53	<1	ND	ND	ND	ND	—
	5/14/04	98.70	12.31	0.00	86.39	2,200	140	1.2	<0.5	3.0	1.31	<1	ND	ND	ND	ND	—
	8/17/04	98.70	13.98	0.00	84.72	2,700	—	3.5	<0.5	3.1	0.87	<1	ND	ND	ND	ND	—
	11/30/04	98.70	13.96	0.00	84.74	2,900	—	10	<0.5	3.0	1	<1	ND	ND	ND	ND	—
	2/28/05	58.63	8.75	0.00	49.88	3,700	160	<.5	<0.5	4.4	0.6	<1	ND	2.3	ND	ND	—
	5/2/05	58.63	10.17	0.00	48.46	3,200	330	0.66	<0.5	2.9	0.62	<1	ND	4.1	ND	ND	—
	8/9/05	58.63	13.15	0.00	45.48	—	—	—	—	—	—	—	—	—	—	—	—
	8/18/05	58.63	13.25	0.00	45.38	1,800	<1,000*	1.9	<0.5	1.9	<.5	<0.5	9.7	5.2	<0.5	<0.5	—

Table 2
GROUNDWATER ELEVATIONS AND ANALYTICAL DATA
Former Totem Pole Market
580 South Fortuna Boulevard
Fortuna, California
Blue Rock Project No. NC-40

Sample ID	Sample Date	TOC (feet)	DTW (feet)	SPH (feet)	GWE (feet)	TPHg ($\mu\text{g/L}$)	TPHd ($\mu\text{g/L}$)	Benzene ($\mu\text{g/L}$)	Toluene ($\mu\text{g/L}$)	Ethylbenzene ($\mu\text{g/L}$)	Xylenes ($\mu\text{g/L}$)	MTBE ($\mu\text{g/L}$)	TBA ($\mu\text{g/L}$)	DIPE ($\mu\text{g/L}$)	ETBE ($\mu\text{g/L}$)	TAME ($\mu\text{g/L}$)	Pb ($\mu\text{g/L}$)
MW-2	8/12/96	99.45	17.17	0.00	82.28	<50	<500	<0.5	<0.5	<0.5	<0.5	<5	ND	ND	ND	ND	—
	9/9/96	99.45	14.58	0.00	84.87	—	—	—	—	—	—	—	—	—	—	—	—
Screen	10/8/96	99.45	14.56	0.00	84.89	—	—	—	—	—	—	—	—	—	—	—	—
5' - 15'	11/25/96	99.45	4.70	--	--	<50	<500	<0.5	<0.5	<0.5	0.77	<5	ND	ND	ND	ND	0.028
	1/9/97	99.45	4.39	0.00	95.06	—	—	—	—	—	—	—	—	—	—	—	—
	2/4/97	99.45	3.20	0.00	96.25	<50	<500	<0.5	<0.5	<0.5	<0.5	69	ND	ND	ND	ND	—
	3/19/97	99.45	4.36	--	--	--	--	--	--	--	--	--	--	--	--	--	—
	4/7/97	99.45	10.02	--	--	--	--	--	--	--	--	--	--	--	--	--	—
	5/1/97	99.45	4.79	0.00	94.66	<50	<500	<0.5	0.55	<0.5	1.59	<5	ND	ND	ND	ND	—
	6/3/97	99.45	13.80	0.00	85.65	—	—	—	—	—	—	—	—	—	—	—	—
	7/7/97	99.45	14.18	0.00	85.27	—	—	—	—	—	—	—	—	—	—	—	—
	8/13/97	99.45	14.18	0.00	85.27	—	—	—	—	—	—	—	—	—	—	—	—
	1/16/98	99.45	13.63	0.00	85.82	—	—	—	—	—	—	—	—	—	—	—	—
	5/5/98	99.45	11.57	0.00	87.88	<50	<500	<0.5	<0.5	<0.5	<0.5	<5	ND	ND	ND	ND	—
	2/22/99	99.45	12.65	0.00	86.80	—	—	—	—	—	—	—	—	—	—	—	—
	3/5/99	99.45	8.51	0.00	90.94	<50	<500	<0.5	<0.5	<0.5	<0.5	<5	ND	ND	ND	ND	—
	5/3/01	99.45	11.64	0.00	87.81	--	--	--	--	--	--	--	--	--	--	--	—
	9/4/01	99.45	14.08	0.00	85.37	<50	<500	<0.5	<0.5	<0.5	<0.5	<5	ND	ND	ND	ND	—
	11/9/01	99.45	13.99	0.00	85.46	--	--	--	--	--	--	--	--	--	--	--	—
	2/25/03	99.45	3.35	0.00	96.10	--	--	--	--	--	--	--	--	--	--	--	—
	5/16/03	99.45	4.72	0.00	94.73	--	--	--	--	--	--	--	--	--	--	--	—
	8/6/03	99.45	13.70	0.00	85.75	--	--	--	--	--	--	--	--	--	--	--	—
	11/11/03	99.45	14.04	0.00	85.41	--	--	--	--	--	--	--	--	--	--	--	—
	2/17/04	99.45	1.22	0.00	98.23	<50	<500	<0.5	<0.5	<0.5	<0.5	<5	ND	ND	ND	ND	—
	5/14/04	99.45	12.74	0.00	86.71	--	--	--	--	--	--	--	--	--	--	--	—
	8/17/04	99.45	14.20	0.00	85.25	--	--	--	--	--	--	--	--	--	--	--	—
	11/30/04	99.45	13.03	0.00	86.42	--	--	--	--	--	--	--	--	--	--	--	—
	2/28/05	58.97	2.92	0.00	56.05	<50	<500	<0.5	<0.5	<0.5	<0.5	<5	ND	ND	ND	ND	—
	5/2/05	58.97	10.08	0.00	48.89	--	--	--	--	--	--	--	--	--	--	--	—
	8/9/05	58.97	14.03	0.00	44.94	--	--	--	--	--	--	--	--	--	--	--	—
	8/18/05	58.97	14.03	0.00	44.94	--	--	--	--	--	--	--	--	--	--	--	—

Table 2
GROUNDWATER ELEVATIONS AND ANALYTICAL DATA
Former Totem Pole Market
580 South Fortuna Boulevard
Fortuna, California
Blue Rock Project No. NC-40

Sample ID	Sample Date	TOC (feet)	DTW (feet)	SPH (feet)	GWE (feet)	TPHg ($\mu\text{g/L}$)	TPHd ($\mu\text{g/L}$)	Benzene ($\mu\text{g/L}$)	Toluene ($\mu\text{g/L}$)	Ethylbenzene ($\mu\text{g/L}$)	Xylenes ($\mu\text{g/L}$)	MTBE ($\mu\text{g/L}$)	TBA ($\mu\text{g/L}$)	DIPE ($\mu\text{g/L}$)	ETBE ($\mu\text{g/L}$)	TAME ($\mu\text{g/L}$)	Pb ($\mu\text{g/L}$)
MW-3	8/12/96	98.89	16.95	0.00	81.94	<50	<200	<0.5	<0.5	<0.5	<0.5	<5	—	—	—	—	—
	9/9/96	98.89	13.93	0.00	84.96	—	—	—	—	—	—	—	—	—	—	—	—
Screen	10/8/96	98.89	14.79	0.00	84.10	—	—	—	—	—	—	—	—	—	—	—	—
5' - 15'	11/25/96	98.89	2.54	0.00	96.35	<50	<50	<0.5	<0.5	<0.5	<0.5	<5	—	—	—	—	—
	1/9/97	98.89	2.58	0.00	96.31	—	—	—	—	—	—	—	—	—	—	—	—
	2/4/97	98.89	2.04	0.00	96.85	<50	<50	<0.5	<0.5	<0.5	<0.5	<5	—	—	—	—	—
	3/19/97	98.89	2.97	0.00	95.92	—	—	—	—	—	—	—	—	—	—	—	—
	4/7/97	98.89	3.31	0.00	95.58	—	—	—	—	—	—	—	—	—	—	—	—
	5/1/97	98.89	2.32	0.00	96.57	<50	<50	<0.5	<0.5	<0.5	<0.5	<5	—	—	—	—	—
	6/3/97	98.89	2.55	0.00	96.34	—	—	—	—	—	—	—	—	—	—	—	—
	7/7/97	98.89	10.75	0.00	88.14	—	—	—	—	—	—	—	—	—	—	—	—
	8/13/97	98.89	14.14	0.00	84.75	—	—	—	—	—	—	—	—	—	—	—	—
	1/16/98	98.89	0.51	0.00	98.38	—	—	—	—	—	—	—	—	—	—	—	—
	5/5/98	98.89	3.32	0.00	95.57	<50	<50	<0.5	<0.5	<0.5	<0.5	<5	—	—	—	—	—
	2/22/99	98.89	1.00	0.00	97.89	—	—	—	—	—	—	—	—	—	—	—	—
	3/5/99	98.89	—	—	—	<50	<50	<0.5	<0.5	<0.5	<0.5	<5	—	—	—	—	—
	5/3/01	98.89	2.95	0.00	95.94	—	—	—	—	—	—	—	—	—	—	—	—
	9/4/01	98.89	14.15	0.00	84.74	<50	<50	<0.5	<0.5	<0.5	<0.5	<5	—	—	—	—	—
	11/9/01	98.89	11.39	0.00	87.50	—	—	—	—	—	—	—	—	—	—	—	—
	2/25/03	98.89	4.24	0.00	94.65	—	—	—	—	—	—	—	—	—	—	—	—
	5/16/03	98.89	3.18	0.00	95.71	—	—	—	—	—	—	—	—	—	—	—	—
	8/6/03	98.89	14.02	0.00	84.87	—	—	—	—	—	—	—	—	—	—	—	—
	11/11/03	98.89	2.87	0.00	96.02	—	—	—	—	—	—	—	—	—	—	—	—
	2/17/04	98.89	0.74	0.00	98.15	<50	<50	<0.5	<0.5	<0.5	<0.5	<1	ND	ND	ND	ND	ND
	5/14/04	98.89	9.12	0.00	89.77	—	—	—	—	—	—	—	—	—	—	—	—
	8/17/04	98.89	14.15	0.00	84.74	—	—	—	—	—	—	—	—	—	—	—	—
	11/30/04	98.89	3.26	0.00	95.63	—	—	—	—	—	—	—	—	—	—	—	—
	2/28/05	58.85	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	5/2/05	58.85	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	8/9/05	58.85	12.64	0.00	46.21	<50	<50	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5
	8/18/05	58.85	13.82	0.00	45.03	—	—	—	—	—	—	—	—	—	—	—	—

Table 2
GROUNDWATER ELEVATIONS AND ANALYTICAL DATA
Former Totem Pole Market
580 South Fortuna Boulevard
Fortuna, California
Blue Rock Project No. NC-40

Sample ID	Sample Date	TOC (feet)	DTW (feet)	SPH (feet)	GWE (feet)	TPHg ($\mu\text{g/L}$)	TPHd ($\mu\text{g/L}$)	Benzene ($\mu\text{g/L}$)	Toluene ($\mu\text{g/L}$)	Ethylbenzene ($\mu\text{g/L}$)	Xylenes ($\mu\text{g/L}$)	MTBE ($\mu\text{g/L}$)	TBA ($\mu\text{g/L}$)	DIPE ($\mu\text{g/L}$)	ETBE ($\mu\text{g/L}$)	TAME ($\mu\text{g/L}$)	Pb ($\mu\text{g/L}$)
MW-4S	2/28/05	58.15	3.39	0.00	54.76	<50	<50	<0.5	<0.5	<0.5	<0.5	<1	ND	ND	ND	ND	--
	Screen	5/2/05	58.15	3.57	0.00	54.58	<50	<50	<0.5	<0.5	<0.5	<0.5	<1	ND	ND	ND	--
	4' - 9'	8/9/05	58.15	4.55	0.00	53.60	<50	67	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	--
		8/18/05	58.15	6.70	0.00	51.45	--	--	--	--	--	--	--	--	--	--	--
MW-4D	2/28/05	58.03	11.93	0.00	46.10	<50	<50	<0.5	<0.5	<0.5	<0.5	<1	ND	ND	ND	ND	--
	Screen	5/2/05	58.03	11.13	0.00	46.90	<50	<50	<0.5	<0.5	<0.5	<0.5	<1	ND	ND	ND	--
	13' - 18'	8/9/05	58.03	13.22	0.00	44.81	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	--
		8/18/05	58.03	13.66	0.00	44.37	--	--	--	--	--	--	--	--	--	--	--
MW-5	2/28/05	57.20	11.05	0.00	46.15	<50	<50	<0.5	<0.5	<0.5	<0.5	<1	ND	ND	ND	ND	--
	Screen	5/2/05	57.20	10.31	0.00	46.89	<50	<50	<0.5	<0.5	<0.5	<0.5	<1	ND	ND	ND	--
	15' - 20'	8/9/05	57.20	12.41	0.00	44.79	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5
		8/18/05	57.20	12.86	0.00	44.34	---	---	---	---	---	---	---	---	---	---	---
						MCL	---	1.0	150	300	1,750	13					
						Taste and odor threshold	5	---	42	29	17	5					
						NCRWQCB Cleanup Goals	50	0.5	42	29	17	5					

Notes :

TOC: Top of well casing referenced to arbitrary site benchmark until 3/02, MSL thereafter

DTW: Depth to water as referenced to top of casing

SPH: Separate phase hydrocarbon on top of groundwater

GWE: Groundwater elevation as referenced to benchmark

$\mu\text{g/L}$ = micrograms per liter

TPHg: Total petroleum hydrocarbons as gasoline by Method 5030/8015M or 5030/8260B

TPHd: Total petroleum hydrocarbons as diesel by Method 8015 (* = silica-gel clean-up)

MTBE: Methyl tertiary butyl ether by Method 8020 or 8260B

TBA: Tertiary butyl alcohol by Method 8260B

DIPE: Di isopropyl ether by Method 8260B

ETBE: Ethyl tertiary butyl ether by Method 8260B

TAME: Tertiary amyl methyl ether by method 8260B

MCL : Maximum contaminant level

NCRWQCB : North Coast Region Water Quality Control Board

Table 3
WELL CONSTRUCTION DETAILS

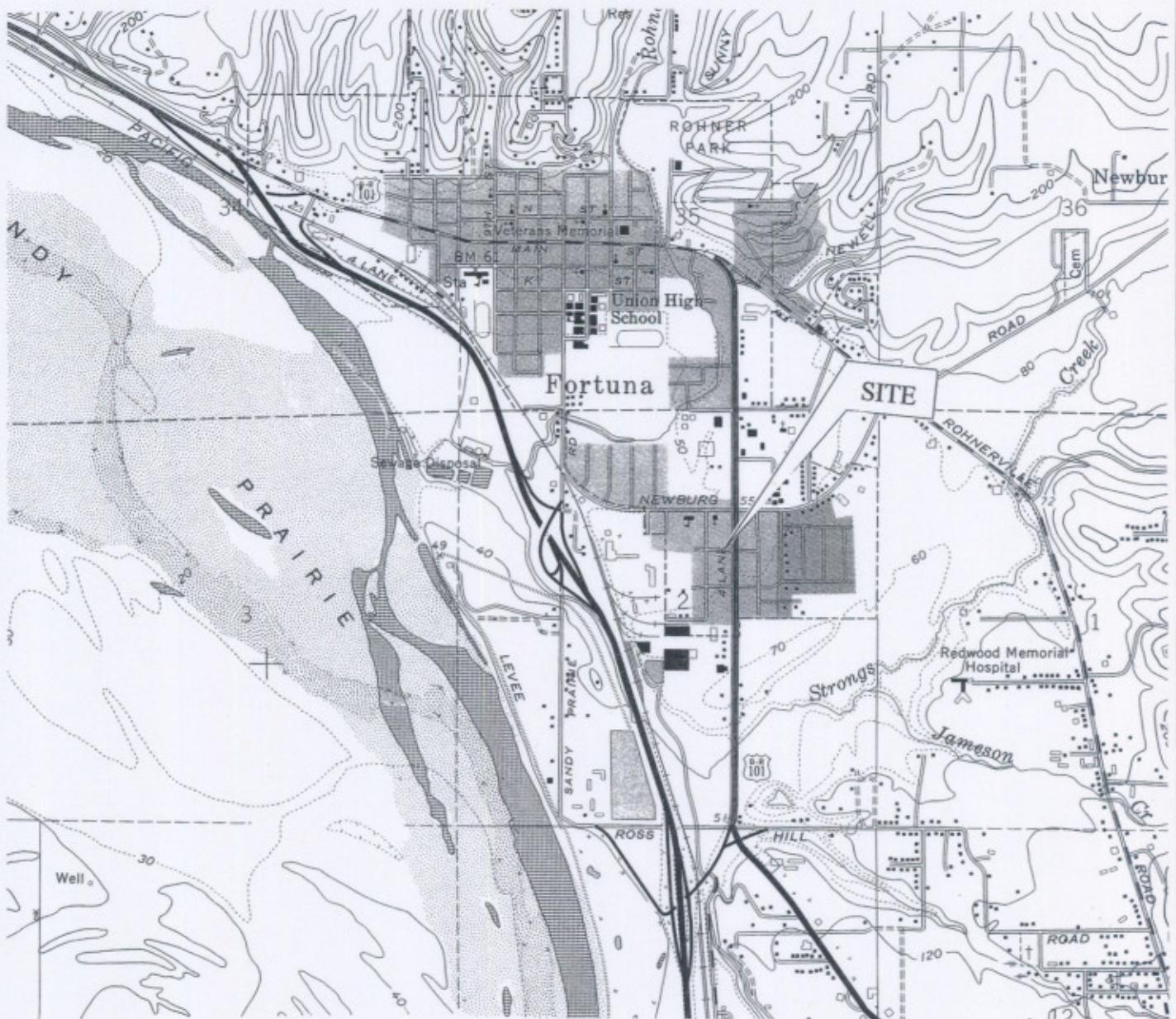
Former Totem Pole Market
508 South Fortuna Boulevard
Fortuna, California
Blue Rock Project No. NC-40

Monitoring Well Identification	Date Installed	Installed by	Casing Diameter (inches)	Total Depth (feet)	Blank Interval (feet)	Screened Interval (feet)	Slot Size (inches)	Filter Pack (feet)	Bentonite Seal (feet)	Cement Grout (feet)
MW-1	6/25/96	Laco	2	15	0-5	5-15	0.01	4-15	2-4	0-2
MW-2	6/25/96	Laco	2	15	0-5	5-15	0.01	4-15	2-4	0-2
MW-3*	6/25/96	Laco	2	15	0-5	5-15	0.01	4-15	2-4	0-2
MW-4S	2/5/05	Laco	2	9	0-4	4-9	0.01	3-9	1-3	0-1
MW-4D	2/5/05	Laco	2	18	0-13	13-18	0.01	12-18	10-12	0-10
MW-5	2/5/05	Laco	2	20	0-15	15-20	0.01	14-20	12-14	0-12

Table 4
GROUNDWATER MONITORING SCHEDULE
Former Totem Pole Market, 580 South Fortuna Boulevard, Fortuna, CA
Blue Rock Project # NC-40

Well	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Notes
MW-1	X	X	X	X	Impacted well
MW-2	X				ND well
MW-3	X				ND well
MW-4S	X	X	X	X	ND well, new well
MW-4D	X	X	X	X	ND well, new well
MW-5	X	X	X	X	ND well, new well

Samples from monitoring wells will be analyzed for TPHd, TPHg, BTEX and 5 fuel oxys by EPA Method 8015M and 5030/8260B.



SCALE 1:24 000

1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 5 0 1 KILOMETER

CONTOUR INTERVAL 40 FEET

MAP SOURCE: USGS Fortuna Quadrangle



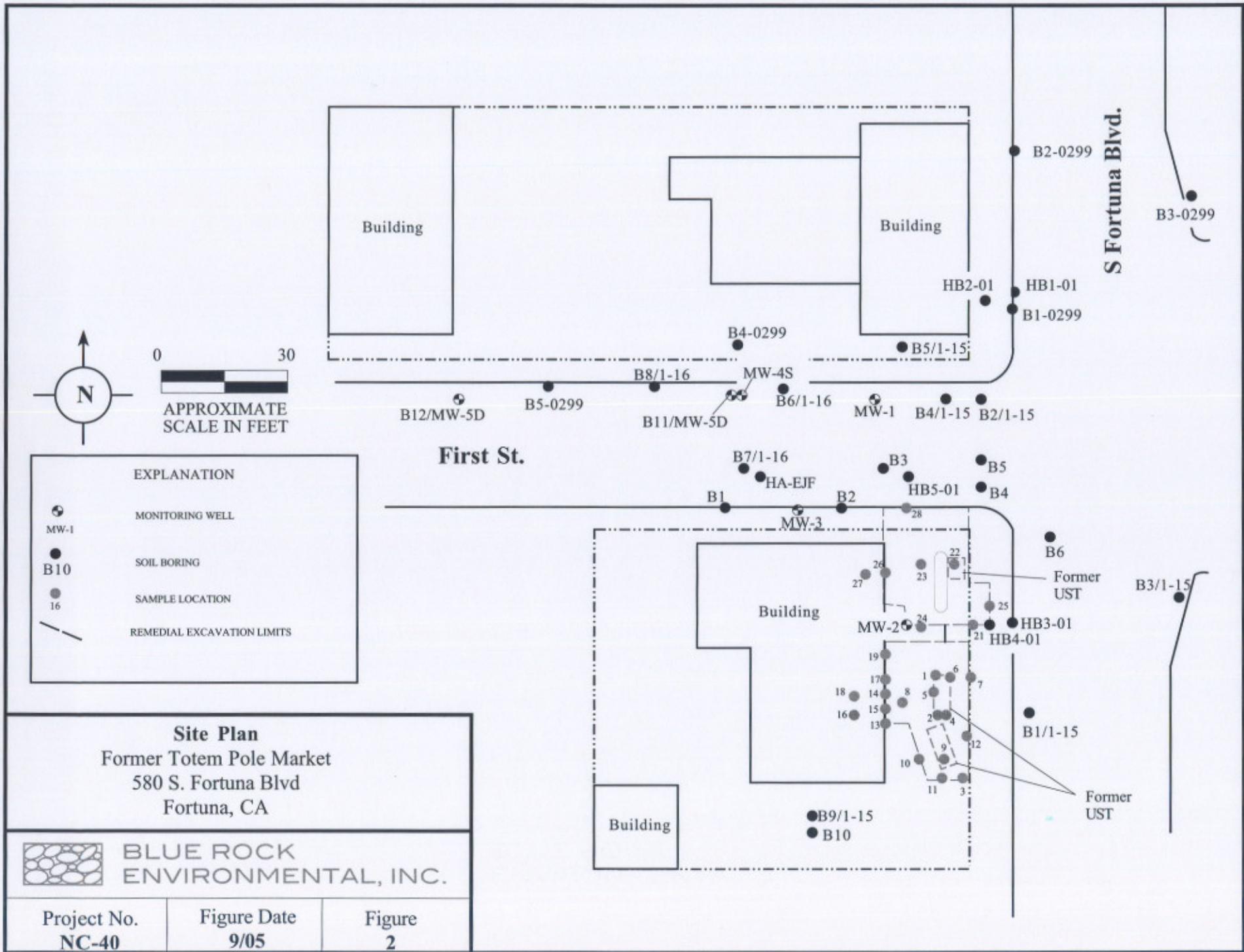
BLUE ROCK
ENVIRONMENTAL, INC.

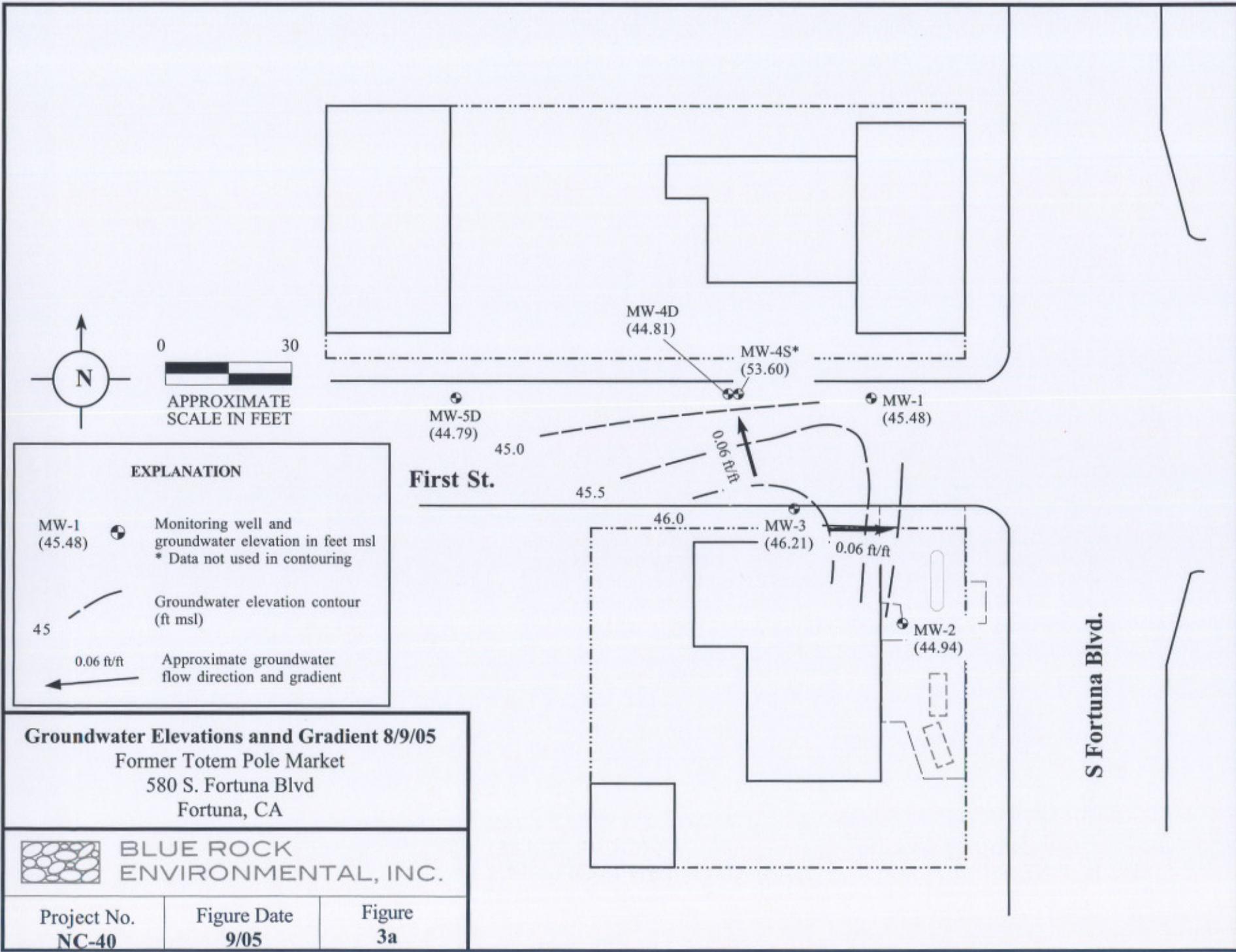
Site Location Map
Former Totem Pole Market
580 South Fortuna Boulevard
Fortuna, California

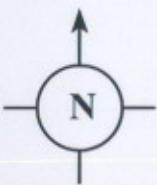
Project No.
NC-40

Date
9/04

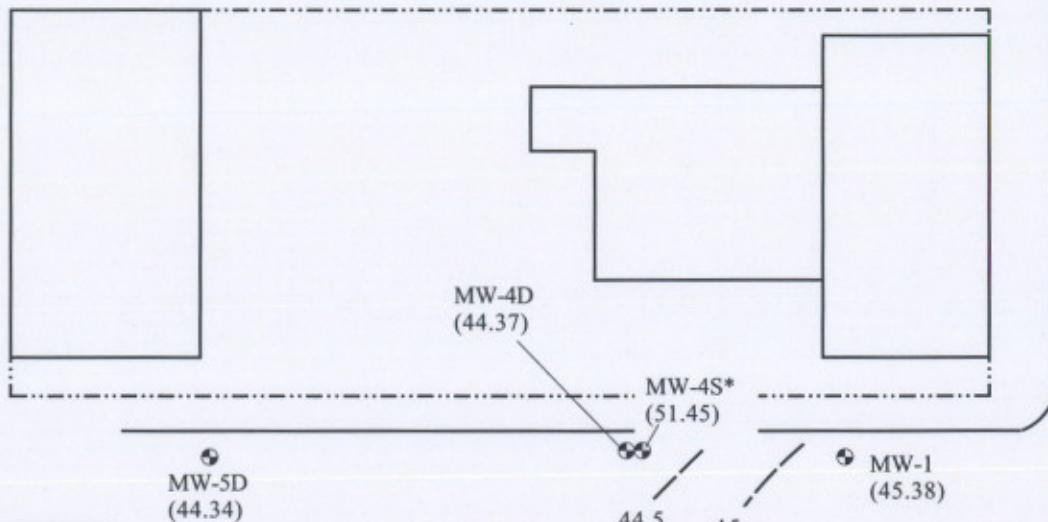
Figure
1







0 30
APPROXIMATE SCALE IN FEET



EXPLANATION

- MW-1 (45.48) • Monitoring well and groundwater elevation in feet msl
* Data not used in contouring
- 45 Dashed line Groundwater elevation contour (feet msl)
- 0.025 ft/ft Approximate groundwater flow direction and gradient

Groundwater Elevations and Gradient 8/18/05

Former Totem Pole Market
580 S. Fortuna Blvd
Fortuna, CA

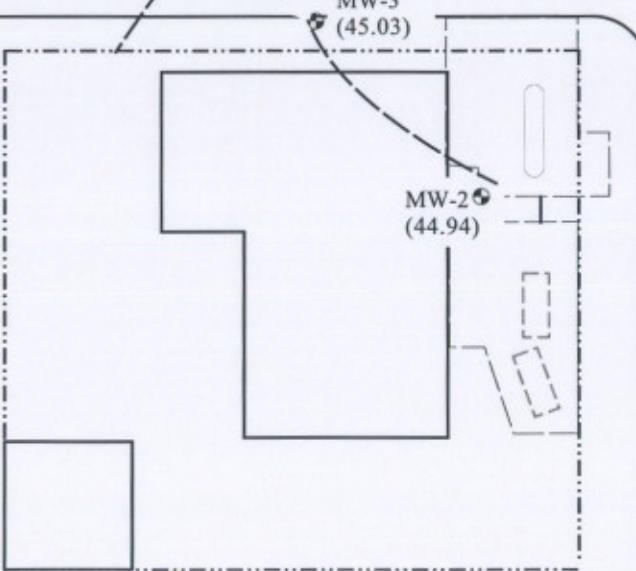


BLUE ROCK
ENVIRONMENTAL, INC.

Project No.
NC-40

Figure Date
9/05

Figure
3b



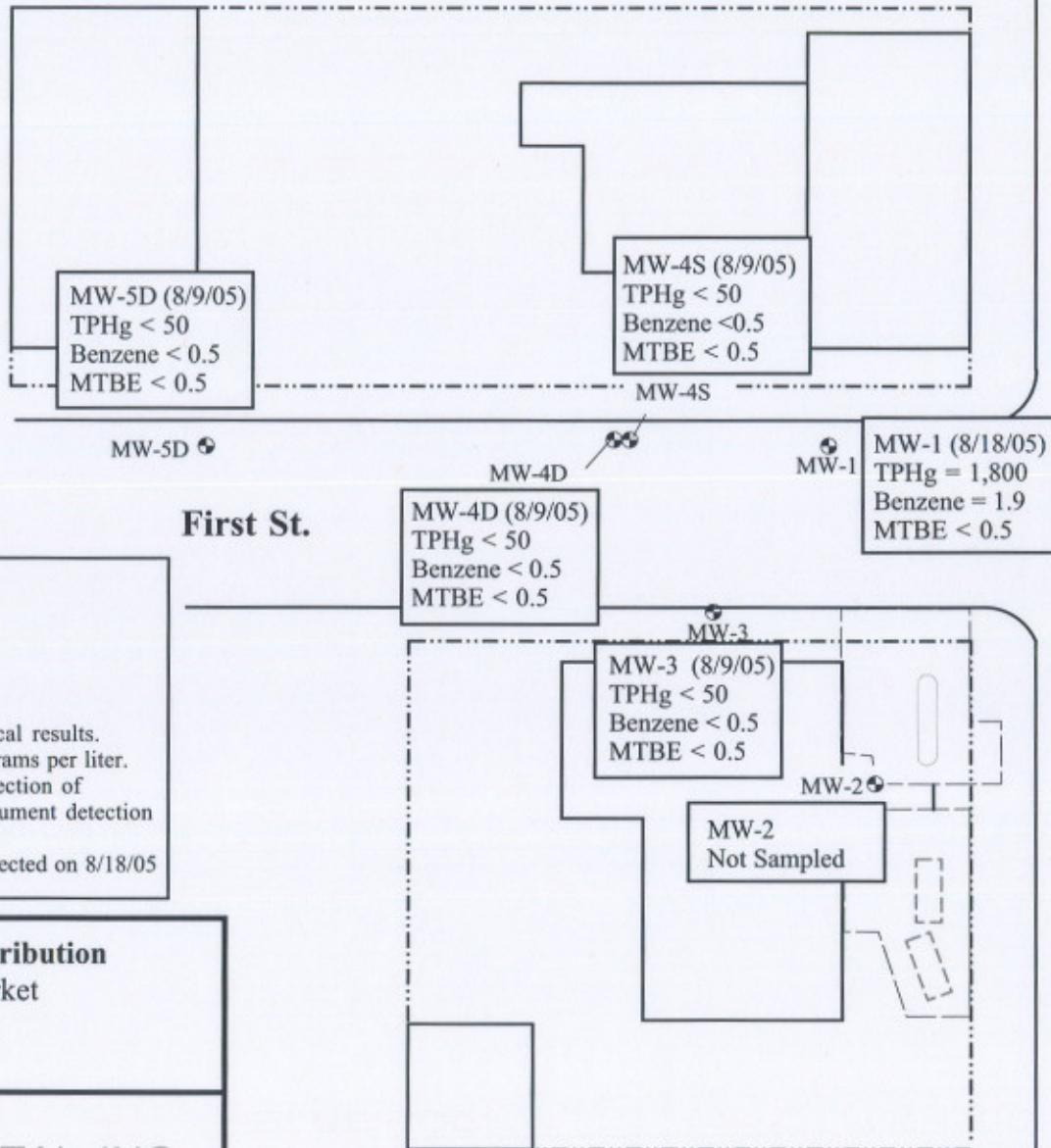
S Fortuna Blvd.



0 30
APPROXIMATE SCALE IN FEET

First St.

S Fortuna Blvd.



Project No.
NC-40

Figure Date
9/05

Figure
4

GAGING DATA/PURGE CALCULATIONS

Job No.: NC-40 Location: 580 S. Fortuna

Date: 8/9/05 Tech(s): JL

Explanation:

DIA. = Well Diameter

DTB = Depth to Bottom

DTW = Depth to Water

ST = Saturated Thickness (DTB-DTW)

CV = Casing Volume (ST x cf)

PV = Purge Volume (standard 3 x CV,

well development 10 x CV)

SPH = Thickness of Separate Phase Hydrocarbons

Conversion Factors (cf):

2 in. dia. well cf = 0.16 gal./ft.

4 in. dia. well cf = 0.65 gal./ft.

6 in. dia. well cf = 1.44 gal./ft.



BLUE ROCK
ENVIRONMENTAL, INC.

PURGING DATA

SHEET 1 OF 2

Job No.: NC-40 Location: 580 S Fortuna Blvd Date: 8/9/05 Tech: JL

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH	
MW-3			---	---	---	Sample for:
Calc. purge volume	13:30	0.25	188	56.1	5.82	TPHg TPHd 8260
0.96	13:35	0.50	163	54.2	5.61	BTEX MTBE Metals
	13:40	1.00	well	Dry	@	Purging Method:
			0.75 gal.			RVC bailer / Pump
COMMENTS: color, turbidity, recharge, sheen						Sampling Method:
clear / mod. / poor / no sheen / odor						Dedicated / Disposable bailer
						Sample at: 13:45

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH	
MW-4S			---	---	---	Sample for:
Calc. purge volume	12:55	0.25	220	71.5	5.89	TPHg TPHd 8260
1.92	13:00	1.25	244	68.7	5.98	BTEX MTBE Metals
	13:05	2.00	244	67.2	6.08	Purging Method:
						PVC bailer / Pump
COMMENTS: color, turbidity, recharge, sheen						Sampling Method:
clear / mod. / mod. / no sheen / odor						Dedicated / Disposable bailer
						Sample at: 13:10

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH	
MW-4D			---	---	---	Sample for:
Calc. purge volume	12:30	0.25	337	63.3	6.00	TPHg TPHd 8260
2.40	12:35	1.25	305	63.5	6.00	BTEX MTBE Metals
	12:40	2.50	well	Dry	@	Purging Method:
			2 gal.			PVC bailer / Pump
COMMENTS: color, turbidity, recharge, sheen						Sampling Method:
clear / heavy / poor / no sheen / odor						Dedicated / Disposable bailer
						Sample at: 12:45

PURGING DATA

SHEET 2 OF 2

Job No.: NC-40 Location: 580 S. Fortuna Blvd Date: 8/9/05 Tech: JL

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH	
MW-5			---	---	---	Sample for:
Calc. purge volume	12:00	0.25	495	47.4	6.14	TPHg TPHd 8260
	12:05	1.50	397	57.4	5.99	BTEX MTBE Metals
3.48	12:10	3.50	353	56.8	5.94	Purging Method:
						PVC bailer / Pump
	COMMENTS: color, turbidity, recharge, sheen					Sampling Method:
	clear/mod./mod. no sheen slight odor					Dedicated / Disposable bailer
						Sample at: 12:15

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH	
			---	---	---	Sample for:
Calc. purge volume						TPHg TPHd 8260
						BTEX MTBE Metals
						Purging Method:
						PVC bailer / Pump
	COMMENTS: color, turbidity, recharge, sheen					Sampling Method:
						Dedicated / Disposable bailer
						Sample at:

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH	
			---	---	---	Sample for:
Calc. purge volume						TPHg TPHd 8260
						BTEX MTBE Metals
						Purging Method:
						PVC bailer / Pump
	COMMENTS: color, turbidity, recharge, sheen					Sampling Method:
						Dedicated / Disposable bailer
						Sample at:

GAGING DATA/PURGE CALCULATIONS

Job No.: NC-40 Location: 580 S. Fortuna Blvd. Date: 8/18/05 Tech(s): JL

Explanation:

DIA. = Well Diameter

DTB = Depth to Bottom

DTW = Depth to Water

ST = Saturated Thickness (DTB-DTW)

CV = Casing Volume (ST x cf)

PV = Purge Volume (standard 3 x CV).

well development 10 x CV)

SPH = Thickness of Separate Phase Hydrocarbons

Conversion Factors (cf):

2 in. dia. well cf = 0.16 gal./ft.

4 in. dia. well cf = 0.65 gal./ft.

6 in. dia. well cf = 1.44 gal./ft.



BLUE ROCK
ENVIRONMENTAL, INC.

PURGING DATA

SHEET 1 OF 1

Job No.: NC-40 Location: 680 S. Fortuna Blvd Date: 8/18/05 Tech: JL

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH	
MW-1			---	---	---	Sample for: 5 oxy's
Calc. purge volume	10:35	0.25	783	56.0	6.27	TPHg TPHd 8260
	10:40	0.50	759	55.8	5.63	BTEX MTBE Metals
0.51						Purging Method: PVC bailed / Pump
						Sampling Method: Dedicated / Disposable bailed
						Sample at: 10:45

COMMENTS: color, turbidity, recharge, sheen
clear / low / poor / no sheen / odor

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH	
			---	---	---	Sample for:
Calc. purge volume						TPHg TPHd 8260
						BTEX MTBE Metals
						Purging Method: PVC bailed / Pump
						Sampling Method: Dedicated / Disposable bailed
						Sample at:

COMMENTS: color, turbidity, recharge, sheen

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH	
			---	---	---	Sample for:
Calc. purge volume						TPHg TPHd 8260
						BTEX MTBE Metals
						Purging Method: PVC bailed / Pump
						Sampling Method: Dedicated / Disposable bailed
						Sample at:

COMMENTS: color, turbidity, recharge, sheen



Report Number : 45278

Date : 8/16/2005

Scott Ferriman
Blue Rock Environmental, Inc.
535 3rd Street, Suite 100
Eureka, CA 95501

Subject : 4 Water Samples
Project Name : Former Totem Pole Market
Project Number : NC-40

Dear Mr. Ferriman,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink that reads "Joel Kiff".

Joel Kiff



Report Number : 45278

Date : 8/16/2005

Project Name : Former Totem Pole Market

Project Number : NC-40

Sample : MW-3

Matrix : Water

Lab Number : 45278-01

Sample Date : 8/9/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	8/11/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	8/11/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	8/11/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	8/11/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	8/11/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	8/11/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	8/11/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	8/11/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	8/11/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	8/11/2005
Toluene - d8 (Surr)	93.1		% Recovery	EPA 8260B	8/11/2005
4-Bromofluorobenzene (Surr)	.96.8		% Recovery	EPA 8260B	8/11/2005
TPH as Diesel	< 50	50	ug/L	M EPA 8015	8/12/2005
Octacosane (Diesel Surrogate)	116		% Recovery	M EPA 8015	8/12/2005

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800



Report Number : 45278

Date : 8/16/2005

Project Name : Former Totem Pole Market

Project Number : NC-40

Sample : MW-4S

Matrix : Water

Lab Number : 45278-02

Sample Date : 8/9/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	8/11/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	8/11/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	8/11/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	8/11/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	8/11/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	8/11/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	8/11/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	8/11/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	8/11/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	8/11/2005
Toluene - d8 (Surrogate)	93.0		% Recovery	EPA 8260B	8/11/2005
4-Bromofluorobenzene (Surrogate)	.97.1		% Recovery	EPA 8260B	8/11/2005
TPH as Diesel	67	50	ug/L	M EPA 8015	8/12/2005
Octacosane (Diesel Surrogate)	119		% Recovery	M EPA 8015	8/12/2005

Approved By:

Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800



Report Number : 45278

Date : 8/16/2005

Project Name : Former Totem Pole Market

Project Number : NC-40

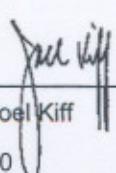
Sample : MW-4D

Matrix : Water

Lab Number : 45278-03

Sample Date : 8/9/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	8/11/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	8/11/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	8/11/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	8/11/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	8/11/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	8/11/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	8/11/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	8/11/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	8/11/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	8/11/2005
Toluene - d8 (Surr)	96.8		% Recovery	EPA 8260B	8/11/2005
4-Bromofluorobenzene (Surr)	.99.2		% Recovery	EPA 8260B	8/11/2005
TPH as Diesel	< 50	50	ug/L	M EPA 8015	8/12/2005
Octacosane (Diesel Surrogate)	119		% Recovery	M EPA 8015	8/12/2005

Approved By: 
Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800



Report Number : 45278

Date : 8/16/2005

Project Name : Former Totem Pole Market

Project Number : NC-40

Sample : MW-5

Matrix : Water

Lab Number : 45278-04

Sample Date : 8/9/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	8/11/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	8/11/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	8/11/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	8/11/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	8/11/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	8/11/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	8/11/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	8/11/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	8/11/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	8/11/2005
Toluene - d8 (Surr)	94.5		% Recovery	EPA 8260B	8/11/2005
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	8/11/2005
TPH as Diesel	< 50	50	ug/L	M EPA 8015	8/12/2005
Octacosane (Diesel Surrogate)	116		% Recovery	M EPA 8015	8/12/2005

Approved By:

Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

Report Number : 45278

Date : 8/16/2005

QC Report : Method Blank Data**Project Name : Former Totem Pole Market****Project Number : NC-40**

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>	<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
TPH as Diesel	< 50	50	ug/L	M EPA 8015	8/11/2005						
Octacosane (Diesel Surrogate)	122		%	M EPA 8015	8/11/2005						
Benzene	< 0.50	0.50	ug/L	EPA 8260B	8/11/2005						
Toluene	< 0.50	0.50	ug/L	EPA 8260B	8/11/2005						
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	8/11/2005						
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	8/11/2005						
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	8/11/2005						
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	8/11/2005						
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	8/11/2005						
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	8/11/2005						
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	8/11/2005						
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	8/11/2005						
Toluene - d8 (Sur)	97.5		%	EPA 8260B	8/11/2005						
4-Bromofluorobenzene (Sur)	99.1		%	EPA 8260B	8/11/2005						
Benzene	< 0.50	0.50	ug/L	EPA 8260B	8/11/2005						
Toluene	< 0.50	0.50	ug/L	EPA 8260B	8/11/2005						
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	8/11/2005						
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	8/11/2005						
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	8/11/2005						
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	8/11/2005						
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	8/11/2005						
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	8/11/2005						
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	8/11/2005						
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	8/11/2005						
Toluene - d8 (Sur)	93.8		%	EPA 8260B	8/11/2005						
4-Bromofluorobenzene (Sur)	96.1		%	EPA 8260B	8/11/2005						

Approved By: 
Joel KiffKIFF ANALYTICAL, LLC
2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 45278

Date : 8/16/2005

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : Former Totem Pole Market

Project Number : NC-40

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
TPH as Diesel	Blank	<50	1000	1000	956	944	ug/L	M EPA 8015	8/11/05	95.6	94.4	1.27	70-130	25
Benzene	45278-03	<0.50	40.0	40.0	42.6	41.8	ug/L	EPA 8260B	8/11/05	107	104	2.04	70-130	25
Toluene	45278-03	<0.50	40.0	40.0	40.2	39.5	ug/L	EPA 8260B	8/11/05	100	98.9	1.70	70-130	25
Tert-Butanol	45278-03	<5.0	200	200	208	206	ug/L	EPA 8260B	8/11/05	104	103	1.22	70-130	25
Methyl-t-Butyl Ether	45278-03	<0.50	40.0	40.0	41.4	41.7	ug/L	EPA 8260B	8/11/05	103	104	0.923	70-130	25
Benzene	45289-11	<0.50	40.0	40.0	43.0	41.4	ug/L	EPA 8260B	8/11/05	107	104	3.70	70-130	25
Toluene	45289-11	<0.50	40.0	40.0	41.1	39.9	ug/L	EPA 8260B	8/11/05	103	99.7	3.05	70-130	25
Tert-Butanol	45289-11	<5.0	200	200	194	202	ug/L	EPA 8260B	8/11/05	97.2	101	3.76	70-130	25
Methyl-t-Butyl Ether	45289-11	3.6	40.0	40.0	49.6	47.8	ug/L	EPA 8260B	8/11/05	115	110	4.09	70-130	25

Approved By: Joe Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 45278

Date : 8/16/2005

QC Report : Laboratory Control Sample (LCS)

Project Name : Former Totem Pole Market

Project Number : NC-40

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	8/11/05	101	70-130
Toluene	40.0	ug/L	EPA 8260B	8/11/05	102	70-130
Tert-Butanol	200	ug/L	EPA 8260B	8/11/05	103	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	8/11/05	101	70-130
Benzene	40.0	ug/L	EPA 8260B	8/11/05	100	70-130
Toluene	40.0	ug/L	EPA 8260B	8/11/05	100	70-130
Tert-Butanol	200	ug/L	EPA 8260B	8/11/05	97.6	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	8/11/05	106	70-130

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By:

Joe Kiff





2795 2nd Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4808

Lab No. 45278

Page ____ of ____

Project Contact (Hardcopy or PDF To):

Scott Ferriman

Company/Address: Blue Rock Env. Inc.
535 3rd St. Ste.100 Eureka CA

Phone No.: (707) 441-1934 FAX No.: (707) 441-1949

Project Number: NC-40 P.O. No:

Project Name: Former Totem Pole Market

Project Address: 580 S Fortuna Blvd
Fortuna, CA

Sample Designation

MW - 3	8/9/05 13:45		X	X	X
MW - 4S		13:10			
MW - 4D		12:45			
MW - 5		12:15			

California EDF Report? Yes No

Recommended but not mandatory to complete this section:

Sampling Company Log Code: - - -

Global ID: T-0-6-0-2-3-0-0-0-2-8

EDF Deliverable To (Email Address):

scott@bluerockenv.com

Sampler Signature:

James Linderman

Chain-of-Custody Record and Analysis Request

Analysis Request

BTEX (8021B)	BTEX/TPH Gas/MTBE (8021B/M8015)	TPH as Diesel (M8015)	TPH as Motor Oil (M8015)	TPH Gas/BTEX/MTBE (8260B)	5 Oxygenates/TPH Gas/BTEX (8260B)	7 Oxygenates (8260B)	7 Oxygenates (8260B)	EPA 8260B (Full List)	Volatile Halocarbons (EPA 8260B)	Lead Scav. (1.2 DCA & 1.2 EOD - 8260B)	TAT
X	X										X -01
											-02
											-03
											-04

Relinquished by:

James Linderman

Date

8/9/05

Time

Received by:

Fed Ex

Remarks:

Sample Receipt

Temp °C 40 Therm. ID# 12-1
Initial BHG Date 08/10/05
Time 11:00 Coolant present Y/N

Relinquished by:

Date

Time

Received by:

Relinquished by:

Date

08/10/05

Time

11:00

Received by Laboratory:

Kiff Analytical

Bill to:



Report Number : 45463

Date : 8/26/2005

Andrew LoCicero
Blue Rock Environmental, Inc.
535 3rd Street, Suite 100
Eureka, CA 95501

Subject : 1 Water Sample
Project Name : Former Totem Pole Market
Project Number : NC-40

Dear Mr. LoCicero,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink, appearing to read "Joel Kiff".
Joel Kiff



Report Number : 45463

Date : 8/26/2005

Subject : 1 Water Sample
Project Name : Former Totem Pole Market
Project Number : NC-40

Case Narrative

The Method Reporting Limit for TPH as Diesel is increased due to interference from Gasoline-Range Hydrocarbons for sample MW-1.

Surrogate recovery for Method 8015, for sample MW-1 is above the control limit. This may indicate a bias in the analysis due to the sample's matrix or an interference with the surrogate from compounds present in the sample.

Approved By:

A handwritten signature in black ink that reads "Joel Kiff". The signature is written over a horizontal line. Below the line, the name "Joel Kiff" is printed in a small, black, sans-serif font.

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800



Report Number : 45463

Date : 8/26/2005

Project Name : Former Totem Pole Market

Project Number : NC-40

Sample : MW-1

Matrix : Water

Lab Number : 45463-01

Sample Date : 8/18/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	1.9	0.50	ug/L	EPA 8260B	8/25/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	8/25/2005
Ethylbenzene	1.9	0.50	ug/L	EPA 8260B	8/25/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	8/25/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	8/25/2005
Diisopropyl ether (DIPE)	5.2	0.50	ug/L	EPA 8260B	8/25/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	8/25/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	8/25/2005
Tert-Butanol	9.7	5.0	ug/L	EPA 8260B	8/25/2005
TPH as Gasoline	1800	50	ug/L	EPA 8260B	8/25/2005
Toluene - d8 (Surr)	96.9		% Recovery	EPA 8260B	8/25/2005
4-Bromofluorobenzene (Surr)	99.7		% Recovery	EPA 8260B	8/25/2005
TPH as Diesel (Silica Gel)	< 1000	1000	ug/L	M EPA 8015	8/25/2005
Octacosane (Diesel Surrogate)	133		% Recovery	M EPA 8015	8/25/2005

Approved By:

Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

Report Number : 45463

Date : 8/26/2005

QC Report : Method Blank Data

Project Name : Former Totem Pole Market

Project Number : NC-40

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	8/25/2005
Octacosane (Diesel Surrogate)	132		%	M EPA 8015	8/25/2005
Benzene	< 0.50	0.50	ug/L	EPA 8260B	8/25/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	8/25/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	8/25/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	8/25/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	8/25/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	8/25/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	8/25/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	8/25/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	8/25/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	8/25/2005
Toluene - d8 (Sur)	97.6		%	EPA 8260B	8/25/2005
4-Bromofluorobenzene (Sur)	102		%	EPA 8260B	8/25/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By: Joel Kiff



Report Number : 45463

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 8/26/2005

Project Name : Former Totem Pole Market

Project Number : NC-40

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
TPH as Diesel	Blank	<50	1000	1000	792	806	ug/L	M EPA 8015	8/25/05	79.2	80.6	1.85	70-130	25
Benzene	45505-03	<0.50	40.0	40.0	39.8	38.3	ug/L	EPA 8260B	8/25/05	99.4	95.7	3.81	70-130	25
Toluene	45505-03	<0.50	40.0	40.0	37.5	36.2	ug/L	EPA 8260B	8/25/05	93.8	90.4	3.62	70-130	25
Tert-Butanol	45505-03	<5.0	200	200	192	189	ug/L	EPA 8260B	8/25/05	95.9	94.6	1.38	70-130	25
Methyl-t-Butyl Ether	45505-03	<0.50	40.0	40.0	37.2	36.3	ug/L	EPA 8260B	8/25/05	93.0	90.7	2.49	70-130	25

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By: Joe Kiff



Report Number : 45463

Date : 8/26/2005

QC Report : Laboratory Control Sample (LCS)

Project Name : **Former Totem Pole Market**

Project Number : **NC-40**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	8/25/05	101	70-130
Toluene	40.0	ug/L	EPA 8260B	8/25/05	96.7	70-130
Tert-Butanol	200	ug/L	EPA 8260B	8/25/05	96.1	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	8/25/05	90.6	70-130

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By:

Joe Kiff





2795 2nd Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4808

Lab No. 45463

Page 1 of 1

Project Contact (Hardcopy or PDF To):

Andrew LoCicero

Company/Address: Blue Rock Env. Inc.
535 3rd St. Ste. 100 Eureka CA

Phone No.: (707) 441-1934 FAX No.: (707) 441-1949

Project Number: NC-40 P.O. No:

Project Name: Former Totem Pole Market

Project Address: 590 S. Fortuna Blvd
Fortuna CA

Sample Designation

Date 8/19/05 Time 10:45

California EDF Report? Yes No

Recommended but not mandatory to complete this section:

Sampling Company Log Code: - - -

Global ID: T-0-6-0-2-3-0-0-0-2-8

EDF Deliverable To (Email Address):

andrew@bluerockenv.com

Sampler Signature:

James Linderman

Sampling

Container Preservative Matrix

BTEX (8021B) BTEX/TPH Gas/MTBE (8021B/M8015)

TPH as Diesel (M8015) *Si gel cleanup*

TPH as Motor Oil (M8015)

TPH Gas/BTEX/MTBE (8260B)

5 Oxygenates/TPH Gas/BTEX (8260B)

7 Oxygenates/TPH Gas/BTEX (8260B)

5 Oxygenates (8260B)

7 Oxygenates (8260B)

Lead Scav. (1,2 DCA & 1,2 EDB - 8260B)

EPA 8260B (Full List)

Volatile Halocarbons (EPA 8260B)

Lead (7421/239.2) TOTAL (X) WET (X)

Chain-of-Custody Record and Analysis Request

Analysis Request

12 hr/24 hr/48 hr/72 hr *W*

For Lab Use Only

Relinquished by:

James Linderman

Date

8/18/05

Time

Received by:

Fed Ex

Remarks:

Sample Receipt

Temp °C 21.0 Therm. ID# JR-1

Initial JFH Date 08/19/05

Time 1025 Coolant present: N

Relinquished by:

Date

Time

Received by:

Relinquished by:

Date

08/19/05

Time

10:25

Received by Laboratory:

Kiff Analytical LLC

Bill to: